

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-0-F1-03-00-PHC-SC	97-0-F1-03-02-PHC-SC	97-0-F1-03-04-PHC-SC	97-0-F1-03-06-PHC-SC
Lab ID	97C1234	97C1240	97C1235	97C1236
SDG	SDGS001	SDGS001	SDGS001	SDGS001
File	DZ0264.D	DZ0270.D	DZ0265.D	DZ0266.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	21.9 g	24.6 g	26.3 g	26.9 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PB	BK-S-86PB
Field Date	7/16/1997	7/16/1997	7/16/1997	7/16/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/23/1997
Analysis Date	8/23/1997	8/23/1997	8/23/1997	8/23/1997
Min Reporting Limit	0.0011	0.001	0.00095	0.00093
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	ND	0.00043 J	0.00037 J	0.00037 J
S5-Diacholestane	ND	0.00019 J	0.0003 J	ND
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0017	0.0022	0.0014	0.0016
T12-Trisnorhopane(TM)	0.0025	0.0026	0.0016	0.0023
S24-Methylcholestane	0.003	0.0034	0.0026	0.0038
S25-Ethylcholestane	0.0018	0.0021	0.0016	0.002
S28-Ethylcholestane	0.0085	0.0095	0.0075	0.0094
T15-Norhopane	0.026	0.031	0.025	0.028
T18-Oleanane	0.001 J	0.0014	0.0012	0.0015
T19-Hopane	0.0031	0.0038	0.0031	0.0038
T21-Homohopane	0.0012	0.0018	0.0014	0.0016
T22-Homohopane	0.021	0.023	0.018	0.021
Total S/T	0.07	0.081	0.064	0.075
5B(H)-Cholane	96	77	83	94
D66-Dotriacontane	85	63	72	78

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Field ID	97-0-F1-03-08-PHC-SC	97-0-F1-03-12-PHC-SC	97-0-F1-03-18-PHC-SC	97-0-F1-03-22-PHC-SC
Lab ID	97C1238	97C1239	97C1233REX	97C1241
SDG	SDGS001	SDGS001	SDGS001	SDGS001
File	DZ0268.D	DZ0269.D	DZ0263.D	DZ0271.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	28.2 g	28.9 g	22.1 g	28 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PB	BK-S-86PB
Field Date	7/16/1997	7/16/1997	7/16/1997	7/16/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/23/1997
Analysis Date	8/23/1997	8/23/1997	8/23/1997	8/23/1997
Min Reporting Limit	0.00089	0.00086	0.0011	0.00089
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00047 J	0.00081 J	0.00088 J	0.00068 J
S5-Diacholestane	0.00041 J	0.00044 J	0.00038 J	0.00041 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0019	0.0026	0.0026	0.0018
T12-Trisnorhopane(TM)	0.0025	0.0025	0.0028	0.0027
S24-Methylcholestane	0.0039	0.0039	0.004	0.004
S25-Ethylcholestane	0.0023	0.0027	0.00089 J	0.00067 J
S28-Ethylcholestane	0.0095	0.0099	0.0098	0.01
T15-Norhopane	0.034	0.038	0.035	0.035
T18-Oleanane	0.0014 J	0.0018	0.0012 J	0.0013
T19-Hopane	0.0042	0.0047	0.0052	0.0053
T21-Homohopane	0.0017	0.0022	0.0022	0.0025
T22-Homohopane	0.025	0.025	0.024	0.026
Total S/T	0.087	0.094	0.089	0.09
5B(H)-Cholane	64	77	80	85
D66-Dotriacontane	53	64	72	70

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Field ID	97-0-F1-03-27-PHC-SC	97-0-F1-03-33-PHC-SC	97-0-F5-03-00-PHC-SC	97-0-F5-03-02-PHC-SC
Lab ID	97C1237	97C1232REX	97C1251	97C1254
SDG	SDGS001	SDGS001	SDGS002	SDGS002
File	DZ0267.D	DZ0262.D	DZ2089.D	DZ2093.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	28.2 g	21.8 g	34.5 g	36 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-89PB	BK-S-89PB
Field Date	7/16/1997	7/16/1997	7/15/1997	7/15/1997
Extract Date	7/23/1997	7/23/1997	7/24/1997	7/24/1997
Analysis Date	8/23/1997	8/23/1997	8/26/1997	8/26/1997
Min Reporting Limit	0.00089	0.0011	0.00072	0.0014
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00054 J	0.00071 J	0.0002 J	0.00045 J
S5-Diacholestane	0.00031 J	0.00038 J	0.00013 J	ND
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0022	0.0021	0.0002 J	0.00031 J
T12-Trisnorhopane(TM)	0.0028	0.0025	0.00049 J	0.00063 J
S24-Methylcholestane	0.0038	0.0042	0.00029 J	0.00057 J
S25-Ethylcholestane	0.0026	0.0013	0.00018 J	0.00051 J
S28-Ethylcholestane	0.0093	0.011	0.0016 J	0.0019 J
T15-Norhopane	0.032	0.032	0.0027	0.0029
T18-Oleanane	0.0013	0.0018	0.00031 J	0.00028 J
T19-Hopane	0.0044	0.0051	0.0013 J	0.0019 J
T21-Homohopane	0.0019	0.0021	0.00049 J	0.00084 J
T22-Homohopane	0.022	0.026	0.0049	0.0053
Total S/T	0.083	0.089	0.013	0.016
5B(H)-Cholane	68	121	45	49
D66-Dotriacontane	58	111	58	52

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Field ID	97-0-F5-03-04-PHC-SC	97-0-F5-03-06-PHC-SC	97-0-F5-03-08-PHC-SC	97-0-F5-03-10-PHC-SC
Lab ID	97C1252	97C1253	97C1249	97C1255
SDG	SDGS002	SDGS002	SDGS002	SDGS002
File	DZ2090.D	DZ2092.D	DZ2087.D	DZ2094.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.4 g	36.2 g	36.7 g	36.6 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-89PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/26/1997	8/26/1997	8/26/1997	8/26/1997
Min Reporting Limit	0.00067	0.00069	0.00068	0.00068
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00038 J	0.00053 J	0.00047 J	0.00029 J
S5-Diacholestane	0.0003 J	0.00038 J	0.00027 J	0.00021 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00024 J	0.00027 J	0.00029 J	0.00021 J
T12-Trisnorhopane(TM)	0.0006 J	0.0006 J	0.00073 J	0.00051 J
S24-Methylcholestane	0.00058 J	0.00062 J	0.00074 J	0.00056 J
S25-Ethylcholestane	0.00042 J	0.00033 J	0.00049 J	0.00033 J
S28-Ethylcholestane	0.0022	0.0029	0.0029	0.0027
T15-Norhopane	0.0036	0.0035	0.0031	0.0027
T18-Oleanane	0.00032 J	0.00029 J	0.00027 J	0.00022 J
T19-Hopane	0.002	0.0021	0.0022	0.0017
T21-Homohopane	0.0008 J	0.00098 J	0.0011 J	0.00093 J
T22-Homohopane	0.0054	0.0053	0.0055	0.0049
Total S/T	0.017	0.018	0.018	0.015
5B(H)-Cholane	50	45	55	45
D66-Dotriacontane	57	53	78	49

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Field ID	97-0-F5-03-12-PHC-SC	97-0-F5-03-14-PHC-SC	97-0-F5-03-16-PHC-SC	97-0-F6-03-00-PHC-SC
Lab ID	97C1250	97C1244	97C1248	97C1328
SDG	SDGS002	SDGS002	SDGS002	SDGS005
File	DZ2088.D	DZ2085.D	DZ2086.D	DZ2297.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.9 g	38.5 g	36.6 g	33.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-97PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/31/1997
Analysis Date	8/26/1997	8/26/1997	8/26/1997	9/9/1997
Min Reporting Limit	0.00066	0.00065	0.00068	0.00074
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00022 J	ND	0.0002 J	0.00017 J
S5-Diacholestane	0.00011 J	ND	0.000071 J	0.00012 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00013 J	0.00023 J	0.0002 J	0.00021 J
T12-Trisnorhopane(TM)	0.00049 J	0.0007 J	0.00061 J	0.00045 J
S24-Methylcholestane	0.00051 J	0.00049 J	0.00053 J	0.00031 J
S25-Ethylcholestane	0.00017 J	0.00024 J	0.00022 J	0.00014 J
S28-Ethylcholestane	0.002	0.0028	0.0026	0.0014
T15-Norhopane	0.0019	0.0031	0.0031	0.001 J
T18-Oleanane	0.00013 J	0.00023 J	0.0002 J	0.00015 J
T19-Hopane	0.0011 J	0.0015	0.0013 J	0.001 J
T21-Homohopane	0.00064 J	0.00096 J	0.0008 J	0.00047 J
T22-Homohopane	0.0035	0.0065	0.0061	0.0031
Total S/T	0.011	0.017	0.016	0.0085
5B(H)-Cholane	45	57	49	58
D66-Dotriacontane	60	91	70	55

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Field ID	97-0-F6-03-02-PHC-SC	97-0-F6-03-04-PHC-SC	97-0-F6-03-06-PHC-SC	97-0-F6-03-08-PHC-SC
Lab ID	97C1329	97C1330	97C1331	97C1332
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	DZ2298.D	DZ2299.D	DZ2300.D	DZ2301.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.8 g	37.4 g	38.6 g	38.3 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/10/1997	9/10/1997	9/10/1997	9/10/1997
Min Reporting Limit	0.00066	0.00067	0.00065	0.00065
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00018 J	0.0002 J	0.00014 J	0.00013 J
S5-Diacholestane	0.0001 J	0.00019 J	0.000072 J	0.000086 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00016 J	0.0002 J	0.00012 J	0.00011 J
T12-Trisnorhopane(TM)	0.00045 J	0.00043 J	0.00039 J	0.0005 J
S24-Methylcholestane	0.00027 J	0.00033 J	0.00033 J	0.00023 J
S25-Ethylcholestane	0.00024 J	0.0002 J	0.00022 J	0.00015 J
S28-Ethylcholestane	0.0013	0.0016	0.0015	0.0017
T15-Norhopane	0.00085 J	0.0011 J	0.001 J	0.0012 J
T18-Oleanane	0.00014 J	0.00012 J	0.0002 J	0.00019 J
T19-Hopane	0.0011 J	0.0012 J	0.00094 J	0.00096 J
T21-Homohopane	0.00051 J	0.00053 J	0.00046 J	0.0005 J
T22-Homohopane	0.0027	0.0033	0.0031	0.004
Total S/T	0.008	0.0094	0.0085	0.0098
5B(H)-Cholane	55	49	54	52
D66-Dotriacontane	54	46	46	47

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Field ID	97-0-F6-03-12-PHC-SC	97-0-F6-03-15-PHC-SC	97-0-F6-03-18-PHC-SC	97-0-F6-03-22-PHC-SC
Lab ID	97C1333	97C1334	97C1335	97C1336
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	DZ2302.D	DZ2303.D	DZ2305.D	DZ2306.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	38.3 g	38.7 g	38 g	38.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/10/1997	9/10/1997	9/10/1997	9/10/1997
Min Reporting Limit	0.00065	0.00064	0.00066	0.00064
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00013 J	0.0001 J	0.000097 J	0.000086 J
S5-Diacholestane	0.000096 J	0.000072 J	0.000074 J	0.000036 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.000088 J	0.00012 J	0.00016 J	0.00013 J
T12-Trisnorhopane(TM)	0.00051 J	0.00048 J	0.0011 J	0.00039 J
S24-Methylcholestane	0.00029 J	0.0003 J	0.00026 J	0.0002 J
S25-Ethylcholestane	0.00021 J	0.00012 J	0.00011 J	0.00011 J
S28-Ethylcholestane	0.0021	0.002	0.0021	0.0017
T15-Norhopane	0.0017	0.0016	0.0015	0.0011 J
T18-Oleanane	0.00016 J	0.00022 J	0.00015 J	0.00018 J
T19-Hopane	0.00098 J	0.00093 J	0.00093 J	0.00089 J
T21-Homohopane	0.00051 J	0.00052 J	0.00053 J	0.00048 J
T22-Homohopane	0.0043	0.0046	0.0047	0.0032
Total S/T	0.011	0.011	0.012	0.0085
5B(H)-Cholane	51	54	58	56
D66-Dotriacontane	47	48	50	46

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Field ID	97-0-F6-03-25-PHC-SC	97-1-F1-03-00-PHC-SC	97-1-F1-03-02-PHC-SC	97-1-F1-03-04-PHC-SC
Lab ID	97C1337	97C1391	97C1393	97C1392
SDG	SDGS005	SDGS004	SDGS004	SDGS004
File	DZ2307.D	DZ2259.D	DZ2261.D	DZ2260.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.8 g	29.6 g	30 g	32.3 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/15/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/10/1997	9/6/1997	9/6/1997	9/6/1997
Min Reporting Limit	0.00066	0.00084	0.00083	0.00077
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00011 J	0.00037 J	0.00033 J	0.00038 J
S5-Diacholestane	0.000088 J	0.00017 J	0.00028 J	0.00021 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00013 J	0.00039 J	0.00044 J	0.0003 J
T12-Trisnorhopane(TM)	0.00047 J	0.00089 J	0.0011 J	0.0008 J
S24-Methylcholestane	0.00033 J	0.00072 J	0.00091 J	0.0012
S25-Ethylcholestane	0.00011 J	0.00039 J	0.00061 J	0.00049 J
S28-Ethylcholestane	0.0024	0.0022	0.0028	0.003
T15-Norhopane	0.0016	0.0033	0.0026	0.0027
T18-Oleanane	0.00015 J	0.00057 J	0.00053 J	0.00071 J
T19-Hopane	0.0011 J	0.0026	0.003	0.0028
T21-Homohopane	0.00053 J	0.0012 J	0.0014	0.0012
T22-Homohopane	0.0049	0.0055	0.0065	0.0063
Total S/T	0.012	0.018	0.02	0.02
5B(H)-Cholane	49	54	57	82
D66-Dotriacontane	45	72	68	99

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Lab ID	97C1394	97C1395	97C1398	97C1396
SDG	SDGS004	SDGS004	SDGS004	SDGS004
File	DZ2262.D	DZ2263.D	DZ2267.D	DZ2265.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	32.9 g	32 g	32.4 g	31.5 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/6/1997	9/6/1997	9/7/1997	9/6/1997
Min Reporting Limit	0.00076	0.00078	0.00077	0.00079
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00026 J	0.00036 J	0.00027 J	0.00034 J
S5-Diacholestane	0.00023 J	0.0002 J	0.00021 J	0.00018 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00029 J	0.00033 J	0.0003 J	0.00041 J
T12-Trisnorhopane(TM)	0.00087 J	0.00097 J	0.001 J	0.0011 J
S24-Methylcholestane	0.00072 J	0.0012 J	0.0012	0.0012 J
S25-Ethylcholestane	0.00027 J	0.00039 J	0.00025 J	0.00041 J
S28-Ethylcholestane	0.0022	0.0028	0.0025	0.0029
T15-Norhopane	0.0021	0.0026	0.0021	0.0027
T18-Oleanane	0.00052 J	0.00087 J	0.00073 J	0.00075 J
T19-Hopane	0.0021	0.003	0.0025	0.0027
T21-Homohopane	0.001 J	0.0015	0.0012	0.0013 J
T22-Homohopane	0.0056	0.0057	0.0042	0.0045
Total S/T	0.016	0.02	0.016	0.018
5B(H)-Cholane	62	61	67	56
D66-Dotriacontane	70	68	66	65

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-1-F1-03-19-PHC-SC	97-1-F1-03-21-PHC-SC	97-1-F1-03-26-PHC-SC	97-1-F2-03-00-PHC-SC
Lab ID	97C1397	97C1399	97C1400	97C1279
SDG	SDGS004	SDGS004	SDGS004	SDGS003
File	DZ2266.D	DZ2268.D	DZ2269.D	DZ2121.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	31.9 g	32.9 g	32.8 g	21.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB	BK-S-91PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/24/1997
Analysis Date	9/7/1997	9/7/1997	9/7/1997	8/28/1997
Min Reporting Limit	0.00078	0.00076	0.00076	0.0012
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00059 J	0.00028 J	0.00029 J	0.00029 J
S5-Diacholestane	0.00034 J	0.00021 J	0.00022 J	0.00021 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00084 J	0.00035 J	0.00041 J	0.00032 J
T12-Trisnorhopane(TM)	0.002	0.0013 J	0.0016	0.00097 J
S24-Methylcholestane	0.0018	0.0016	0.0017	0.00076 J
S25-Ethylcholestane	0.00054 J	0.00034 J	0.00048 J	0.00029 J
S28-Ethylcholestane	0.0045	0.0037	0.0039	0.0016 J
T15-Norhopane	0.0055	0.0024	0.0028	0.0018 J
T18-Oleanane	0.0011 J	0.00095 J	0.00097 J	0.00068 J
T19-Hopane	0.0057	0.0033	0.0035	0.0027
T21-Homohopane	0.0023	0.0017	0.0019	0.0012 J
T22-Homohopane	0.0064	0.006	0.0075	0.0019
Total S/T	0.032	0.022	0.025	0.013
5B(H)-Cholane	56	76	69	62
D66-Dotriacontane	69	86	82	60

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-1-F2-03-02-PHC-SC	97-1-F2-03-04-PHC-SC	97-1-F2-03-06-PHC-SC	97-1-F2-03-08-PHC-SC
Lab ID	97C1272	97C1277	97C1274	97C1276
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ2113.D	DZ2119.D	DZ2115.D	DZ2118.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	25.8 g	27.4 g	26.9 g	28 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-91PB	BK-S-91PB	BK-S-91PB	BK-S-91PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/27/1997	8/27/1997	8/27/1997	8/27/1997
Min Reporting Limit	0.00097	0.00091	0.00093	0.00089
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00027 J	0.00036 J	0.00026 J	0.00029 J
S5-Diacholestane	0.00016 J	0.0002 J	0.00023 J	0.0002 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00031 J	0.00032 J	0.00029 J	0.00035 J
T12-Trisnorhopane(TM)	0.00082 J	0.00098 J	0.00081 J	0.0011 J
S24-Methylcholestane	0.00095 J	0.0012 J	0.00093 J	0.0017
S25-Ethylcholestane	0.00039 J	0.00033 J	0.00033 J	0.00042 J
S28-Ethylcholestane	0.0015	0.002	0.0016	0.002
T15-Norhopane	0.0018	0.0019	0.0017	0.0023
T18-Oleanane	0.00076 J	0.00074 J	0.00069 J	0.00096 J
T19-Hopane	0.0025	0.0029	0.0023	0.003
T21-Homohopane	0.0013 J	0.0014	0.0011 J	0.0014
T22-Homohopane	0.0018	0.0017	0.0016	0.0019
Total S/T	0.012	0.014	0.012	0.016
5B(H)-Cholane	67	69	69	69
D66-Dotriacontane	69	69	73	72

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-1-F2-03-12-PHC-SC	97-1-F2-03-14-PHC-SC	97-1-F2-03-16-PHC-SC	97-1-F2-03-18-PHC-SC
Lab ID	97C1278	97C1269	97C1268	97C1271
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ2120.D	DZ2110.D	DZ2109.D	DZ2112.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	30.1 g	28.2 g	29.7 g	30 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-91PB	BK-S-91PB	BK-S-91PB	BK-S-91PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/28/1997	8/27/1997	8/27/1997	8/27/1997
Min Reporting Limit	0.00083	0.00089	0.00084	0.00083
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.0003 J	0.00025 J	0.0003 J	0.00023 J
S5-Diacholestane	0.00024 J	0.00027 J	0.0002 J	0.0002 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00035 J	0.00042 J	0.00024 J	0.00026 J
T12-Trisnorhopane(TM)	0.00094 J	0.00098 J	0.00088 J	0.00094 J
S24-Methylcholestane	0.0013	0.0018	0.0012 J	0.0012
S25-Ethylcholestane	0.00033 J	0.00049 J	0.00039 J	0.00039 J
S28-Ethylcholestane	0.0026	0.0024	0.002	0.0019
T15-Norhopane	0.0021	0.0021	0.0015	0.0017
T18-Oleanane	0.00076 J	0.00094 J	0.00079 J	0.00077 J
T19-Hopane	0.0029	0.003	0.0023	0.0024
T21-Homohopane	0.0013	0.0013 J	0.0011 J	0.0011 J
T22-Homohopane	0.002	0.0021	0.002	0.002
Total S/T	0.015	0.016	0.013	0.013
5B(H)-Cholane	66	67	66	70
D66-Dotriacontane	67	81	82	75

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-1-F2-03-20-PHC-SC	97-1-F2-03-22-PHC-SC	97-1-F2-03-27-PHC-SC	97-2-F1-03-00-PHC-SC
Lab ID	97C1273	97C1270	97C1275	97C1401
SDG	SDGS003	SDGS003	SDGS003	SDGS002
File	DZ2114.D	DZ2111.D	DZ2116.D	DZ2101.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	24.9 g	29 g	27 g	9.24 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-91PB	BK-S-91PB	BK-S-91PB	BK-S-89PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/13/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/27/1997	8/27/1997	8/27/1997	8/27/1997
Min Reporting Limit	0.001	0.00086	0.00092	0.0027
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00033 J	0.00025 J	0.00026 J	0.0005 J
S5-Diacholestane	0.00027 J	0.00022 J	0.00018 J	0.00058 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00033 J	0.00033 J	0.00024 J	0.0006 J
T12-Trisnorhopane(TM)	0.0013 J	0.001 J	0.00092 J	0.0018 J
S24-Methylcholestane	0.0017	0.0017	0.0012 J	0.0012 J
S25-Ethylcholestane	0.00033 J	0.00056 J	0.00027 J	0.00073 J
S28-Ethylcholestane	0.0024	0.0025	0.0021	0.0029 J
T15-Norhopane	0.0023	0.0025	0.0021	0.004 J
T18-Oleanane	0.0011 J	0.0011 J	0.00083 J	0.00075 J
T19-Hopane	0.0033	0.0035	0.0024	0.005 J
T21-Homohopane	0.0017	0.0017	0.0012 J	0.002 J
T22-Homohopane	0.0027	0.0029	0.0027	0.005 J
Total S/T	0.018	0.018	0.014	0.025
5B(H)-Cholane	66	63	66	48
D66-Dotriacontane	72	69	69	57

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-2-F1-03-02-PHC-SC	97-2-F1-03-04-PHC-SC	97-2-F1-03-06-PHC-SC	97-2-F1-03-08-PHC-SC
Lab ID	97C1305	97C1415	97C1402	97C1309
SDG	SDGS002	SDGS002	SDGS002	SDGS002
File	DZ2096.D	DZ2103.D	DZ2102.D	DZ2100.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	15.3 g	15.5 g	15.4 g	16.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-89PB
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/26/1997	8/27/1997	8/27/1997	8/26/1997
Min Reporting Limit	0.0016	0.0016	0.0016	0.0015
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00065 J	0.00061 J	0.00056 J	0.00089 J
S5-Diacholestane	0.00025 J	0.00039 J	0.00051 J	0.00048 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00056 J	0.00059 J	0.00066 J	0.0007 J
T12-Trisnorhopane(TM)	0.0013 J	0.0017 J	0.0016 J	0.0017 J
S24-Methylcholestane	0.0012 J	0.0016 J	0.0011 J	0.0011 J
S25-Ethylcholestane	0.0006 J	0.001 J	0.00058 J	0.00071 J
S28-Ethylcholestane	0.0035	0.0037	0.0032	0.0038
T15-Norhopane	0.0033	0.0037	0.0035	0.0047
T18-Oleanane	0.00069 J	0.00065 J	0.00073 J	0.00071 J
T19-Hopane	0.0036	0.0039	0.0037	0.0048
T21-Homohopane	0.0017 J	0.0019 J	0.0019 J	0.0023
T22-Homohopane	0.0044	0.0049	0.0046	0.0047
Total S/T	0.022	0.025	0.023	0.026
5B(H)-Cholane	52	49	59	66
D66-Dotriacontane	59	53	59	74

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-2-F1-03-12-PHC-SC	97-2-F1-03-18-PHC-SC	97-2-F1-03-22-PHC-SC	97-2-F1-03-27-PHC-SC
Lab ID	97C1307	97C1308	97C1306	97C1416
SDG	SDGS002	SDGS002	SDGS002	SDGS002
File	DZ2098.D	DZ2099.D	DZ2097.D	DZ2105.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	16.4 g	15.8 g	17.7 g	17.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-89PB
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/26/1997	8/26/1997	8/26/1997	8/27/1997
Min Reporting Limit	0.0015	0.0016	0.0014	0.0014
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00077 J	0.00074 J	0.00088 J	0.00093 J
S5-Diacholestane	0.00034 J	0.00061 J	0.00069 J	0.00062 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0006 J	0.00058 J	0.00069 J	0.00071 J
T12-Trisnorhopane(TM)	0.0014 J	0.0017 J	0.0017 J	0.0016 J
S24-Methylcholestane	0.0017 J	0.0019 J	0.0016 J	0.0018 J
S25-Ethylcholestane	0.00072 J	0.0008 J	0.00094 J	0.00093 J
S28-Ethylcholestane	0.0036	0.0039	0.0037	0.0036
T15-Norhopane	0.0038	0.004	0.0047	0.0044
T18-Oleanane	0.00075 J	0.00076 J	0.00096 J	0.0011 J
T19-Hopane	0.0043	0.0046	0.0055	0.0044
T21-Homohopane	0.0021 J	0.0023	0.0025 J	0.002 J
T22-Homohopane	0.0047	0.005	0.0057	0.0051
Total S/T	0.025	0.027	0.03	0.027
5B(H)-Cholane	53	70	51	55
D66-Dotriacontane	55	80	64	59

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-2-F1-03-31-PHC-SC	97-2-F2-03-00-PHC-SC	97-2-F2-03-02-PHC-SC	97-2-F2-03-04-PHC-SC
Lab ID	97C1304	97C1227	97C1229	97C1231
SDG	SDGS002	SDGS001	SDGS001	SDGS001
File	DZ2095.D	DZ0256.D	DZ0258.D	DZ0261.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	29.5 g	18.2 g	19.9 g	20.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-86PB	BK-S-86PB	BK-S-86PB
Field Date	7/13/1997	7/9/1997	7/9/1997	7/9/1997
Extract Date	7/24/1997	7/23/1997	7/23/1997	7/23/1997
Analysis Date	8/26/1997	8/22/1997	8/23/1997	8/23/1997
Min Reporting Limit	0.00085	0.0014	0.0012	0.0012
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00058 J	0.00061 J	0.00052 J	0.00046 J
S5-Diacholestane	0.0004 J	0.0004 J	0.00024 J	0.00037 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00046 J	0.00055 J	0.00057 J	0.00054 J
T12-Trisnorhopane(TM)	0.00096 J	0.0012 J	0.0011 J	0.001 J
S24-Methylcholestane	0.0015 J	0.0015 J	0.0015	0.0015
S25-Ethylcholestane	0.00068 J	0.00066 J	0.00071 J	0.00059 J
S28-Ethylcholestane	0.0026	0.0031	0.0027	0.002
T15-Norhopane	0.0032	0.0036	0.0035	0.0029
T18-Oleanane	0.0006 J	0.00085 J	0.00088 J	0.00065 J
T19-Hopane	0.0032	0.0044	0.004	0.0038
T21-Homohopane	0.0015 J	0.0022	0.0018	0.0018
T22-Homohopane	0.004	0.004	0.0034	0.0033
Total S/T	0.02	0.023	0.021	0.019
5B(H)-Cholane	50	80	88	78
D66-Dotriacontane	59	71	84	66

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-2-F2-03-06-PHC-SC	97-2-F2-03-08-PHC-SC	97-2-F2-03-12-PHC-SC	97-2-F2-03-18-PHC-SC
Lab ID	97C1225	97C1224	97C1226	97C1230
SDG	SDGS001	SDGS001	SDGS001	SDGS001
File	DZ0254.D	DZ0253.D	DZ0255.D	DZ0260.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	21.3 g	22.3 g	23.2 g	24.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PB	BK-S-86PB
Field Date	7/9/1997	7/9/1997	7/9/1997	7/9/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/23/1997
Analysis Date	8/22/1997	8/22/1997	8/22/1997	8/23/1997
Min Reporting Limit	0.0012	0.0011	0.0011	0.001
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00054 J	0.00068 J	0.00058 J	0.00054 J
S5-Diacholestane	0.00035 J	0.00038 J	0.00031 J	0.00032 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00054 J	0.00073 J	0.00058 J	0.00052 J
T12-Trisnorhopane(TM)	0.0014 J	0.0012 J	0.0013 J	0.0008 J
S24-Methylcholestane	0.0014 J	0.0019	0.0019	0.0014
S25-Ethylcholestane	0.00075 J	0.0011 J	0.00087 J	0.00062 J
S28-Ethylcholestane	0.0031	0.0035	0.0037	0.0025
T15-Norhopane	0.0034	0.0039	0.004	0.0022
T18-Oleanane	0.00098 J	0.00089 J	0.001 J	0.00074 J
T19-Hopane	0.0045	0.0049	0.0048	0.0034
T21-Homohopane	0.0024	0.0024	0.0023	0.0014
T22-Homohopane	0.0038	0.0043	0.004	0.0029
Total S/T	0.023	0.026	0.025	0.017
5B(H)-Cholane	71	82	70	85
D66-Dotriacontane	63	77	71	69

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-2-F2-03-22-PHC-SC	97-2-F2-03-27-PHC-SC	97-2-F2-03-31-PHC-SC	97-3-F1-03-00-PHC-SC
Lab ID	97C1221	97C1228	97C1223	97C1367
SDG	SDGS001	SDGS001	SDGS001	SDGS005
File	DZ0250.D	DZ0257.D	DZ0252.D	DZ2308.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	24.8 g	25.4 g	25.8 g	8.9 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PB	BK-S-97PB
Field Date	7/9/1997	7/9/1997	7/9/1997	7/11/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/31/1997
Analysis Date	8/22/1997	8/23/1997	8/22/1997	9/10/1997
Min Reporting Limit	0.001	0.00098	0.00097	0.0028
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00053 J	0.00053 J	0.00049 J	0.00062 J
S5-Diacholestane	0.0004 J	0.00035 J	0.00036 J	0.00026 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00053 J	0.00035 J	0.00045 J	0.00052 J
T12-Trisnorhopane(TM)	0.001 J	0.0012 J	0.00097 J	0.0014 J
S24-Methylcholestane	0.0017	0.0016	0.0022	0.00078 J
S25-Ethylcholestane	0.00081 J	0.00057 J	0.0011 J	0.0007 J
S28-Ethylcholestane	0.0026	0.0035	0.003	0.002 J
T15-Norhopane	0.0029	0.0031	0.003	0.0028 J
T18-Oleanane	0.00092 J	0.00075 J	0.0011 J	0.00096 J
T19-Hopane	0.0039	0.0037	0.0041	0.0034 J
T21-Homohopane	0.0017	0.0017	0.0022	0.0012 J
T22-Homohopane	0.0035	0.0037	0.004	0.0028 J
Total S/T	0.02	0.021	0.023	0.017
5B(H)-Cholane	72	75	82	50
D66-Dotriacontane	84	67	76	45

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-3-F1-03-02-PHC-SC	97-3-F1-03-04-PHC-SC	97-3-F1-03-06-PHC-SC	97-3-F1-03-08-PHC-SC
Lab ID	97C1369	97C1370	97C1371	97C1368
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	DZ2310.D	DZ2311.D	DZ2312.D	DZ2309.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	16 g	13.6 g	18.4 g	18.9 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/10/1997	9/10/1997	9/10/1997	9/10/1997
Min Reporting Limit	0.0016	0.0018	0.0014	0.0013
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00041 J	0.00067 J	0.00037 J	0.00043 J
S5-Diacholestane	0.00017 J	0.00046 J	0.00018 J	0.00032 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00037 J	0.00061 J	0.00021 J	0.00047 J
T12-Trisnorhopane(TM)	0.001 J	0.0012 J	0.00063 J	0.0012 J
S24-Methylcholestane	0.0011 J	0.0014 J	0.0005 J	0.001 J
S25-Ethylcholestane	0.00044 J	0.00056 J	0.00041 J	0.00053 J
S28-Ethylcholestane	0.002 J	0.0027 J	0.0012 J	0.003
T15-Norhopane	0.003	0.0029 J	0.0015 J	0.003
T18-Oleanane	0.00042 J	0.00075 J	0.00043 J	0.00055 J
T19-Hopane	0.003	0.0038	0.002 J	0.0034
T21-Homohopane	0.0012 J	0.0016 J	0.00085 J	0.0015 J
T22-Homohopane	0.003	0.0038	0.0017 J	0.0036
Total S/T	0.016	0.02	0.01	0.019
5B(H)-Cholane	54	52	46	53
D66-Dotriacontane	45	45	41 &	45

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-3-F1-03-12-PHC-SC	97-3-F1-03-18-PHC-SC	97-3-F1-03-22-PHC-SC	97-3-F1-03-27-PHC-SC
Lab ID	97C1372	97C1373	97C1375	97C1374
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	DZ2313.D	DZ2314.D	DZ2316.D	DZ2315.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	14.6 g	20.6 g	21.4 g	17.6 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/10/1997	9/10/1997	9/11/1997	9/10/1997
Min Reporting Limit	0.0017	0.0012	0.0012	0.0014
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.0007 J	0.0006 J	0.0004 J	0.00038 J
S5-Diacholestane	0.00036 J	0.00031 J	0.00026 J	0.00021 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00045 J	0.00035 J	0.00026 J	0.00028 J
T12-Trisnorhopane(TM)	0.0013 J	0.00095 J	0.00087 J	0.00083 J
S24-Methylcholestane	0.0014 J	0.00084 J	0.001 J	0.00088 J
S25-Ethylcholestane	0.00062 J	0.00042 J	0.00047 J	0.00041 J
S28-Ethylcholestane	0.0032 J	0.0027	0.0021 J	0.0021 J
T15-Norhopane	0.0036	0.0027	0.0016 J	0.0016 J
T18-Oleanane	0.00066 J	0.00053 J	0.00051 J	0.00033 J
T19-Hopane	0.0038	0.0031	0.0025	0.0022 J
T21-Homohopane	0.0019 J	0.0013 J	0.001 J	0.00093 J
T22-Homohopane	0.004	0.0033	0.0028	0.0022 J
Total S/T	0.022	0.017	0.014	0.012
5B(H)-Cholane	47	45	47	58
D66-Dotriacontane	42 &	40 &	40 &	49

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-3-F1-03-33-PHC-SC	97-3-F2-03-00-PHC-SC	97-3-F2-03-02-PHC-SC	97-3-F2-03-04-PHC-SC
Lab ID	97C1376	97C1412	97C1409	97C1403
SDG	SDGS005	SDGS004	SDGS004	SDGS004
File	DZ2318.D	DZ2320.D	DZ2275.D	DZ2270.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	19.4 g	12.2 g	12.8 g	21.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/11/1997	9/11/1997	9/7/1997	9/7/1997
Min Reporting Limit	0.0013	0.002	0.002	0.0012
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00049 J	0.00053 J	0.00084 J	0.00048 J
S5-Diacholestane	0.00023 J	0.00045 J	0.00042 J	0.00041 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0002 J	0.00041 J	0.00075 J	0.00057 J
T12-Trisnorhopane(TM)	0.00093 J	0.0014 J	0.0021 J	0.0012 J
S24-Methylcholestane	0.001 J	0.0016 J	0.0014 J	0.0013 J
S25-Ethylcholestane	0.0004 J	0.0007 J	0.00091 J	0.00052 J
S28-Ethylcholestane	0.0023 J	0.0026 J	0.0033 J	0.0028
T15-Norhopane	0.0023 J	0.0034 J	0.0049	0.0026
T18-Oleanane	0.00049 J	0.00073 J	0.00088 J	0.00057 J
T19-Hopane	0.0023 J	0.004	0.0056	0.0037
T21-Homohopane	0.0013 J	0.0018 J	0.0028 J	0.0018 J
T22-Homohopane	0.0025 J	0.0038	0.0058	0.0035
Total S/T	0.014	0.021	0.03	0.019
5B(H)-Cholane	43 &	53	57	54
D66-Dotriacontane	34 &	45	61	58

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-3-F2-03-06-PHC-SC	97-3-F2-03-08-PHC-SC	97-3-F2-03-12-PHC-SC	97-3-F2-03-18-PHC-SC
Lab ID	97C1410	97C1411	97C1408	97C1405
SDG	SDGS004	SDGS004	SDGS004	SDGS004
File	DZ2276.D	DZ2319.D	DZ2274.D	DZ2271.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	23.9 g	24.1 g	25.6 g	24.1 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/7/1997	9/11/1997	9/7/1997	9/7/1997
Min Reporting Limit	0.001	0.001	0.00098	0.001
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00066 J	0.00057 J	0.00055 J	0.00034 J
S5-Diacholestane	0.00044 J	0.00032 J	0.00037 J	0.00025 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00062 J	0.00034 J	0.00053 J	0.00035 J
T12-Trisnorhopane(TM)	0.0016 J	0.0011 J	0.0015 J	0.0012 J
S24-Methylcholestane	0.0012 J	0.00093 J	0.0014 J	0.0013 J
S25-Ethylcholestane	0.0007 J	0.00048 J	0.00063 J	0.00044 J
S28-Ethylcholestane	0.0038	0.0025	0.0029	0.0028
T15-Norhopane	0.0036	0.0032	0.0035	0.0022
T18-Oleanane	0.0007 J	0.00034 J	0.00071 J	0.00062 J
T19-Hopane	0.004	0.0032	0.0037	0.0032
T21-Homohopane	0.0019 J	0.0013 J	0.0016	0.0015
T22-Homohopane	0.0048	0.0036	0.0043	0.004
Total S/T	0.024	0.018	0.022	0.018
5B(H)-Cholane	50	56	62	68
D66-Dotriacontane	50	46	69	77

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Sediment Core - BIOMARKER

Field ID	97-3-F2-03-22-PHC-SC	97-3-F2-03-27-PHC-SC	97-3-F2-03-31-PHC-SC
Lab ID	97C1406	97C1413	97C1407
SDG	SDGS004	SDGS004	SDGS004
File	DZ2272.D	DZ2321.D	DZ2273.D
Sample Type	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core
Sample Size	24.2 g	24.9 g	15.1 g
Weight Basis	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/7/1997	9/11/1997	9/7/1997
Min Reporting Limit	0.001	0.001	0.0016
Units	ug/g	ug/g	ug/g
BIOMARKER			
T4-C23Diterpane	ND	ND	ND
S4-Diacholestane	0.00049 J	0.00037 J	0.00068 J
S5-Diacholestane	0.00038 J	0.000096 J	0.00035 J
T9-C29Tricyclitriterpane	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND
T11-Trisnorhopane(TS)	0.00047 J	0.00029 J	0.00044 J
T12-Trisnorhopane(TM)	0.0014	0.00084 J	0.0015 J
S24-Methylcholestane	0.0016	0.00074 J	0.0015 J
S25-Ethylcholestane	0.00051 J	0.00051 J	0.00066 J
S28-Ethylcholestane	0.0031	0.0025	0.0042
T15-Norhopane	0.0026	0.0025	0.0028
T18-Oleanane	0.0007 J	0.00041 J	0.00086 J
T19-Hopane	0.0038	0.0024	0.0042
T21-Homohopane	0.0016	0.001 J	0.0021 J
T22-Homohopane	0.0043	0.0033	0.0055
Total S/T	0.021	0.015	0.025
5B(H)-Cholane	77	51	71
D66-Dotriacontane	87	46	79